IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
PATENT EXAMINING OPERATION

In re Application of: I.J. Najmuddin	§	Atty. Docket No.:	94.0048
Serial No.: 10/081,090	§	Group Art Unit:	2862
Filed: February 22, 2002	§		
For: **METHOD AND APPARATUS FOR DETECTING FRACTURES USING FREQUENCY DATA DERIVED FROM SEISMIC DATA**	§	Examiner:	V.J. Taylor

MAIL STOP RCE
COMMISSIONER FOR PATENTS
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CERTIFICATE OF MAILING (37 CFR 1.8a)

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date indicated below with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313.

Mark R. Wisner, Registration No. 30,603 — June 18, 2003 Date

PRELIMINARY AMENDMENT

Dear Sir:

A Request for Continued Examination is being filed concurrently with this Preliminary Amendment, and before examination of the captioned continued examination application, it is respectfully requested that the following amendments be entered.

IN THE CLAIMS

Add the following new claims:

13. The method of claim 1 wherein the first frequency spectrum associated with the first portion of the seismic traces corresponding to the first window is generated using either Fast Fourier Transform, Cosine Correlation Transform, or Wavelet Transform.

14. The method of claim 1 wherein the second frequency spectrum associated with the second portion of the seismic traces corresponding to the second window is generated using either Fast Fourier transform, Cosine Correlation Transform, or Wavelet Transform.

15. The program storage device of claim 5 wherein the first frequency spectrum associated with the first portion of the seismic traces corresponding to the first window is generated using either Fast Fourier Transform, Cosine Correlation Transform, or Wavelet Transform.